TABLE 1-10b

Postdoctoral appointees in engineering detailed fields: 1979–2019
(Number)

Year	Total	Aerospace, aeronautical, and astronautical engineering	Agricultural engineering	Architecture ^{a,b}	Bioengineering and biomedical engineering	Biological and biosystems engineering	Chemical engineering	Civil engineering ^b	Electrical, electronics, and communications engineering	Engineering mechanics, physics, and science	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering ^a	Mining engineering	Nanotechnology ^e	Nuclear engineering	Petroleum engineering	Engineering nec
1979	1,067	32	29	na	28	na	192	128	142	74	8	143	209	5	NA	20	6	51
1980	981	20	13	na	25	na	185	122	123	79	16	137	172	3	NA	22	6	58
1981	1,040	14	12	na	32	na	173	103	191	87	13	130	194	16	NA	26	2	47
1982	980	25	9	na	28	na	177	103	178	76	9	130	168	10	NA	18	4	45
1983	1,108	32	5	na	27	na	199	131	180	71	13	182	204	19	NA	15	1	29
1984	1,203	42	11	na	31	na	246	146	178	63	21	196	168	18	NA	19	4	60
1985	1,356	51	16	na	46	na	274	122	183	90	18	207	245	19	NA	31	6	48
1986	1,405	48	17		53	na	298	140	175	67	25		250	25		31	1	35
1987	1,446	43	29	na	44	na	312	174	177	41	26	216	283	26	NA	20	10	-
1988	1,690	48	31	na	47	na		203	187	38	32		325	63		17	8	48
1989	1,928	38	39		69	na		182	193	74	32		323	90		36	9	62
1990	1,950	67	34		71	na		168	242	76	6		363	19		30	15	
1991	2,262	77			59	na		186	346	117	27		392	11		29	19	
1992	2,369	92			79	na		188	318	71	38		450	23		34	12	
1993	2,446	116		na	80	na		181	388	78	63	358	403	19		40	13	
1994	2,606	100		na	135	na	-	210	411	95	54	388	441	24		39	14	
1995	2,648	101	51	na	129	na		201	381	101	30		490	19		28	9	122
1996	2,677	109		na	140	na		230	395	93	30		496	10		28	6	119
1997	2,971	125	62		154	na		248	508	115	28		465	11		33	21	
1998	2,853	133			180	na		225	488	110	30		404	10		19	14	
1999	3,196	128			242	na		299	548	122	27		421	6	NA NA	30	19	
2000	3,313	111	56		220	na		295	525	163	48		507	8	NA	40	20	
2001	3,152	128	58		262	na		268	436	162	21		479	14	-	77	17	
2002	3,566	140			284	na		342	613	169	43		507	10		26	15	
2003	3,810	141	85		388	na		300	646	180	45		539	12		49 67	17	
2004	3,949	141	79		425	na		313	654	180	50		567	9	NA NA	41	14	
2005	4,166 4,642	153			477	na		384	689	168	51 51		578 571	11	NA NA	85	13	
2006		165		-	591	na		458	721	224		-		11			18	
2007old ^b	4,908	178			640	na		419	885	192	73		555	4	na		22	
2007new ^b		178			640	na		417	884	183	71		564	5	na	73	22	
2008	5,462	154	135		710	na		465	987	214	115		605	5	na	85	28	
2009	6,416	168			960	na		535	1,025	226	109		758	4	na	90	36	
2010 ^{c,d}	6,969	212	119	10	1,023	na	,	571	1,095	236	151	1,021	841	4	na	107	44	
2011 ^d	6,786	202	129	16	1,069	na	1,137	551	1,035	281	121	889	860	4	na	111	35	346

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TABLE 1-10b

Postdoctoral appointees in engineering detailed fields: 1979–2019

(Number)

Year	Total	Aerospace, aeronautical, and astronautical engineering	Agricultural engineering	Architecture ^{a,t}	Bioengineering and biomedical engineering	Biological and biosystems engineering	Chemical engineering	Civil engineering ^b	Electrical, electronics, and communications engineering	Engineering mechanics, physics, and science	Industrial and manufacturing engineering	Mechanical engineering	Metallurgical and materials engineering ^a	Mining engineering	Nanotechnology	Nuclear engineering	Petroleum engineering	Engineering nec
2012	7,103	170	133	6	1,161	na	1,098	590	1,152	292	127	985	854	5	na	120	53	357
2013	7,106	202	152	17	1,103	na	1,230	587	1,180	240	133	1,034	809	7	na	105	49	258
2014old ^e	7,292	220	146	14	1,196	na	1,244	629	1,177	270	131	1,055	776	15	na	112	66	241
2014new	7,307	220	150	14	1,198	na	1,244	629	1,179	270	131	1,058	780	15	na	112	66	241
2015	7,656	217	221	17	1,201	na	1,283	670	1,160	251	142	1,161	911	15	na	107	73	227
2016	7,796	201	165	16	1,278	na	1,218	706	1,186	284	130	1,080	882	10	na	100	72	468
2017old ^a	7,929	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2017new	7,839	196	111	ne	1,398	78	1,197	804	1,170	316	127	1,089	550	15	85	94	65	544
2018	7,914	207	113	ne	1,433	96	1,142	739	1,197	354	156	1,069	549	26	134	106	63	530
2019	8,266	227	112	ne	1,515	87	1,157	865	1,305	180	167	1,142	642	23	151	80	72	541

na = not applicable; data were not collected at this level of detail in the year shown. NA = not available; nanotechnology was not collected until 2007. ne = not eligible.

nec = not elsewhere classified.

Note(s):

"Field" refers to the field of the unit that reports postdocs to the Survey of Graduate Students and Postdoctorates in Science and Engineering. Sum of the broad fields may not add to total because of rounding.

Source(s):

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.

^a As part of 2017 Survey of Graduate Students and Postdoctorates in Science and Engineering (GSS) redesign, the GSS taxonomy was changed to align with the National Center for Science and Engineering Statistics (NCSES) Taxonomy of Disciplines (TOD), thus increasing comparability with other NCSES surveys. As a result, some eligible fields were reclassified and a small number of fields became fully or partially ineligible. Comparisons to prior years should use the 2017old estimates and should be limited to broad areas of study—detailed field comparisons are not recommended. Materials sciences was reported as part of metallurgical and materials engineering from 2011–16; starting in 2017 materials sciences; nanotechnology was reported as part of physical sciences; nanotechnology was reported as part of the science detailed field multidisciplinary and interdisciplinary studies from 2007–16, and starting in 2017 architecture was removed.

b In 2007, eligible fields were reclassified, newly eligible fields were added, and the survey was redesigned to improve coverage and coding of eligible units. "2007new" presents data as collected in prior years. Architecture is reported as a separate field of engineering in 2007new; data were reported under civil engineering in 2007old and previous years. See appendix A in https://www.nsf.gov/statistics/nsf10307/ for more detail.

c In 2010, the postdoctoral appointee (postdoc) and nonfaculty researcher (NFR) section of the survey was expanded and significant effort was made to ensure that appropriate personnel were providing postdoc and NFR data. Thus, it is unclear how much of the increases in 2010 and later years over 2009 and prior years are from growth in postdocs and NFRs and how much are from improved data collection. More information on the changes to the data collection is available at https://www.nsf.gov/statistics/infbrief/nsf13334/.

d Postdoc and NFR data from 2010 and 2011 were reimputed following the 2012 data collection; these data supersede those contained in previous reports.

e In 2014, the survey frame was updated following a comprehensive frame evaluation study. The study identified potentially eligible but not previously surveyed academic institutions in the United States with master's- or doctorate-granting programs in science, engineering, or health. A total of 151 newly eligible institutions were added, and two private for-profit institutions offering mostly practitioner-based graduate degrees were determined to be ineligible. For more information, see https://www.nsf.gov/statistics/2016/nsf16314/.